



- ☐ before the mailing of a first Office Action after the filing of a request for continued examination under § 1.114.
- b. ☒ after the events of above paragraph 1a and prior to the mailing date of a final Office Action or Notice of Allowance, and thus: ☐ the certification of paragraph 2 below is provided, or ☒ a fee of \$180.00 (authorized below).
- c. ☐ after the mailing date of a final Office Action or a Notice of Allowance and prior to payment of the issue fee, and thus: the certification of paragraph 2 below is provided and a fee of \$180.00 is enclosed.

2. It is hereby certified:

- ☐ that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three (3) months prior to the filing of the Statement; or
- ☐ that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in § 1.56 (c) more than three (3) months prior to the filing of the Statement.
- ☐ that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and that this communication was not received by any individual designated in § 1.56(c) more than thirty (30) days prior to the filing of the information disclosure statement;

U.S. Application Serial No. 10/615,506 (5500-79500)

U.S. Application Serial No. 10/700,033 (5500-91600)

U.S. Application Serial No. 10/755,742 (5500-90300)

U.S. Application Serial No. 10/676,437 (5500-88800)

3. ☒ Consideration of the following additional information (including any co-pending or abandoned U.S. applications, prior uses and/or sales, etc.) is requested:

4. For each non-English language reference listed on the attached Form PTO-1449:

- ☐ reference is made to an English language translation submitted herewith, and/or
- ☐ reference is made to a foreign patent office search report (in the English language) submitted herewith, and/or
- ☐ reference is made to an English language translation of a foreign patent office search report submitted herewith, and/or
- ☐ reference is made to the concise explanation contained in the specification of the present application at page(s) \_\_\_\_\_, and/or

- ☐ reference is made to the concise explanation set forth below:
5. ☐ Applicant also offers the following comments for the Examiner's consideration:
6. ☐ Also enclosed is a copy of a foreign search report citing these references.
7. ☐ The listed documents were brought to the attention of the Applicant(s) after payment of the issue fee in the captioned case. The documents were cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. Applicant(s) request this Information Disclosure Statement and attached Form PTO-1449 be placed in the file of the captioned application.
8. ☐ Applicant(s) requests that the Information Disclosure Statement and attached Form PTO-1449 and references, which are being filed before the grant of the patent and pursuant to 37 C.F.R. § 1.97(i), be placed in the file of the captioned application.

If any required fees are missing, the Commissioner is authorized to charge said fees to Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C. Deposit Account No. 501505/5500-88700/RCK.

Respectfully submitted,



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Reg. No. 39,255  
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Date: May 16, 2006



PTO/SB/08A (07-05)

Approved for use through 07/31/2006. OMB 0651-0031

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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO Modified	Complete if Known
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Use as many sheets as necessary)	Application Number 10/726,902
	Confirmation No.: 4177
	Filing Date: December 3, 2003
	First Named Inventor: Mitchell Alsup
	Art Unit: 2183
Examiner Name: Fennema, Robert E.	
Attorney Docket Number: 5500-88700	

Sheet 1 of 2

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM- DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code (if known)			
		US-7,003,629	2/21/06	Alsup	
		US-6,449,714	9/10/02	Sinharoy	
		US-6,339,822	1/15/02	Miller	
		US-6,256,727	7/3/01	McDonald	
		US-6,185,675	2/6/01	Kranich, et al.	
		US-6,345,295	2/02	Beardsley, et al.	
		US-5,930,497	7/99	Cherian, et al.	
		US-6,578,128	6/03	Arsenault, et al.	
		US-6,973,543	12/05	Hughes	
		US-6,823,428	11/23/04	Rodriguez, et al.	
		US-6,167,536	12/00	Moann	
		US-6,357,016	3/02	Rodgers, et al.	
		US-2002/0144101	10/02	Wang, et al.	
		US-2003/0023835	1/03	Kalafatis, et al.	
		US-2004/0083352	4/04	Lee	
		US-2004/0193857	9/04	Miller, et al.	
		US-2005/0125632	6/05	Alsup, et al.	
		US-			

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	Check if English Translation is attached
		Country Code-Number-Kind Code (if known)				
						<input type="checkbox"/>
						<input type="checkbox"/>

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application. <sup>1</sup>Applicant's unique citation designation number (optional).



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	Confirmation No.: 4177
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	First Named Inventor: Mitchell Alsup
	Art Unit: 2183
Examiner Name: Fennema, Robert E.	
Attorney Docket Number: 5500-88700	

Sheet 2 of 2

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, (page(s), volume-issue number(s), publisher, city and/or country where published.	Check if English Translation is attached
	A1	Yuan Chou, et al., "Instruction Path Coprocessors," March 2000, pp. 1-24.	<input type="checkbox"/>
	A2	Friendly, et al., "Putting the Fill Unit to Work: Dynamic Organizations for Trace Cache Microprocessors," Dept. of Electrical Engineering and Computer Sciences, The Univ. of Michigan, December 1998, 9 pages.	<input type="checkbox"/>
	A3	Bryan Black, et al., "Turboscalar: A High Frequency High IPC Microarchitecture," Dept. of Electrical and Computer Engineering, Carnegie Mellon Univ., June 2000, pp. 1-	<input type="checkbox"/>
	A4	Merten, et al., "An Architectural Framework for Run-Time Optimization," June 2001, pp. 1-43.	<input type="checkbox"/>
	A5	Jourdan, et al., "Increasing the Instruction-Level Parallelism through Data-Flow Manipulation," Intel, 11 pages.	<input type="checkbox"/>
	A6	Hinton, G., et al., "A 0.18-MUM CMOS IA-32 Processor with a 4-GHZ Integer Execution Unit," IEEE Journal of Solid-State Circuits, Vol. 36, No. 11, November 2001, pages. 1617-1627.	<input type="checkbox"/>
	A7	Sanjay J. Patel, et al., "replay: A Hardware Framework for Dynamic Optimization," IEEE, Vol. 50, No. 6, June 2001, pp. 590-608.	<input type="checkbox"/>
	A8	Jacobson, et al., "Instruction Pre-Processing in Trace Processors," IEEE Xplore, January 1999, 6 pages.	<input type="checkbox"/>
	A9	Bryan Black, et al., "The Block-Based Trace Cache," IEEE, 1999, pp. 196-207.	<input type="checkbox"/>
	A10	Palmer, et al., "Fido: A Cache That Learns to Fetch," Proceedings of the 17 <sup>th</sup> International Conference on Very Large Data Bases, Barcelona, September 1991, pp. 255-264.	<input type="checkbox"/>
	A11	Chen et al., "Eviction Based Cache Placement for Storage Caches," USENIX 2003 Annual Technical Conference, (13 pages)	<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application. <sup>1</sup>Applicant's unique citation designation number (optional).